

CLAIMS

1. A shielding structure for a brushless type rotation detector comprising:
 - a signal modulation section for modulating an output voltage induced by an excitation voltage according to a rotation angle to be detected; and
 - a case that houses the signal modulation section,characterized in that said shielding structure includes a stator magnetic shielding section that can provide a magnetic shield between a stator iron core and a stator transformer that constitute said signal modulation section.
2. The shielding structure for a brushless type rotation detector according to claim 1, characterized in that said shielding structure is a ring-shaped structure including said stator magnetic shielding section and a securing section for mounting the structure to an inner surface of said case, said securing section is formed into a flange shape and has an insertion hole section into which a lead from said stator iron core is inserted, and said stator magnetic shielding section has the same height as said stator transformer and the stator iron core and is formed without a hole section.
3. The shielding structure for a brushless type rotation detector according to claim 1, characterized in that said shielding structure is a ring-shaped structure including said stator magnetic shielding section integrally formed with said case, and said stator magnetic shielding section has the same height as said stator transformer and the stator iron core and is formed without a hole section.
4. The shielding structure for a brushless type rotation detector according to claim 2 or 3, characterized in that said stator magnetic shielding section has a height capable of also providing a shield between the rotor transformer and the rotor iron core.
5. A shielding structure for a brushless type rotation detector comprising:

a signal modulation section for modulating an output voltage induced by an excitation voltage according to a rotation angle to be detected; and
a case that houses the signal modulation section,
characterized in that said shielding structure includes a rotor magnetic shielding section that can provide a magnetic shield between a rotor iron core and a rotor transformer that constitute said signal modulation section.

6. The shielding structure for a brushless type rotation detector according to claim 5, characterized in that said shielding structure is a ring-shaped structure including said rotor magnetic shielding section and a securing section for mounting the structure to a surface of said rotor, said securing section is formed into a flange shape, and said rotor magnetic shielding section has the same height as said rotor transformer and the rotor iron core.

7. The shielding structure for a brushless type rotation detector according to claim 5, characterized in that said shielding structure is a ring-shaped structure including said rotor magnetic shielding section integrally formed with said rotor, and said rotor magnetic shielding section has the same height as said rotor transformer and the rotor iron core.

8. The shielding structure for a brushless type rotation detector according to claim 6 or 7, characterized in that said rotor magnetic shielding section has a height capable of also providing a shield between said stator transformer and the stator iron core.

9. A shielding structure for a brushless type rotation detector comprising:
a signal modulation section for modulating an output voltage induced by an excitation voltage according to a rotation angle to be detected; and
a case that houses the signal modulation section,
characterized in that said shielding structure includes a stator section shielding structure having a stator magnetic shielding section that can provide a magnetic shield between a stator iron core and a stator transformer that

constitute said signal modulation section, and a rotor section shielding structure having a rotor magnetic shielding section that can provide a magnetic shield between a rotor iron core and a rotor transformer that constitute said signal modulation section.

10. The shielding structure for a brushless type rotation detector according to any of claims 1 to 9 that can be used in a one phase excitation/two phase output brushless resolver, a two phase excitation/one phase output brushless resolver, or a two phase excitation/two phase output brushless resolver.